

## ABSTRACT

### A Dispensing Nozzle and Cap

A dispensing nozzle having: (i) an elongate nozzle body having a base portion  
5 and a dispensing end; (ii) an internal conduit in the nozzle body for delivering  
product from the base portion to the dispensing end; (iii) engaging formations on  
the nozzle for inter-engaging with co-operating engaging formations on a cap, to  
hold said cap in a position over-fitting the nozzle; and (iv) an external ramp on the  
nozzle body and against which a co-operating portion on the cap may act, to  
10 provide sufficient relative separation force between the cap and the nozzle body,  
to separate the engaging formations on the cap and the nozzle from an inter-  
engaged position. A cap for overfitting a dispensing nozzle is also provided  
having : (i) a first closed end; (ii) a housing for receiving an elongate nozzle body  
and defining a second open end; (iii) engaging formations on the cap for inter-  
15 engaging with co-operating engaging formations on the nozzle, to hold said cap  
in a position over-fitting the nozzle; and (iii) a mouth about the open end; at least  
one co-operating portion on the cap arranged to act on a ramping surface of the  
nozzle when overfitted on the nozzle so as to provide sufficient relative  
separation force between the cap and the nozzle body, to separate the engaging  
20 formations on the cap and the nozzle from an inter-engaged position.

The cap and nozzle when inter-engaged are easily separated by substantially  
less than one 360° turn and provide a strong separating force which can  
overcome fouling or bonding caused by curing of dispensed product.

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